

ABSTRACT OF THE DISCLOSURE

There is provided a vibrator ~~10~~ which is integrally coupled to a rotating shaft ~~12~~ of a motor. A groove portion ~~13~~ in which the rotating shaft ~~12~~ is fitted is formed in an eccentric load portion ~~11~~, and side walls ~~14~~ <sup>extending</sup> ~~bulging~~ from the eccentric load portion ~~11~~ and forming both side edge portions of the groove portion ~~13~~ are <sup>provided</sup> ~~formed~~. A portion ~~14c~~ of a tip portion end surface ~~14a~~ of <sup>each</sup> ~~the~~ side wall ~~14~~, except <sup>at</sup> ~~an~~ outer peripheral portion ~~14b~~ of the side wall ~~14~~ and at a side of the groove portion, is caulked from an opening side of the groove portion <sup>toward</sup> ~~to~~ a bottom side, <sup>thereof</sup> ~~so that~~ the vibrator ~~10~~ is integrally coupled to the rotating shaft.